

Product information

VEGF, 207-371aa

human, Recombinant, *E.coli*

Cat. No. IBATGP1449

Full name: Vascular endothelial growth factor A

NCBI Accession No.: NP_001020539

Synonyms: VEGF, MVCD1, VPF

Description: Vascular endothelial growth factor (VEGF) is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGF is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGF binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant human VEGF165 protein was expressed in *E.coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

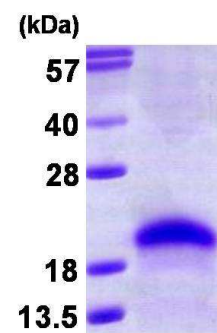
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 2mM EDTA,

0.1mM PMSF, 1mM DTT, 10% glycerol

Molecular Weight: 19.3 kDa (166aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHGGQ
HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

General references:

Murphy J.F., *et al.* (2001) *FASEB J.* 15:1667-1669

Woolard J., *et al.* (2004) *Cancer Res.* 64:7822-7835

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.